

FIG. 1

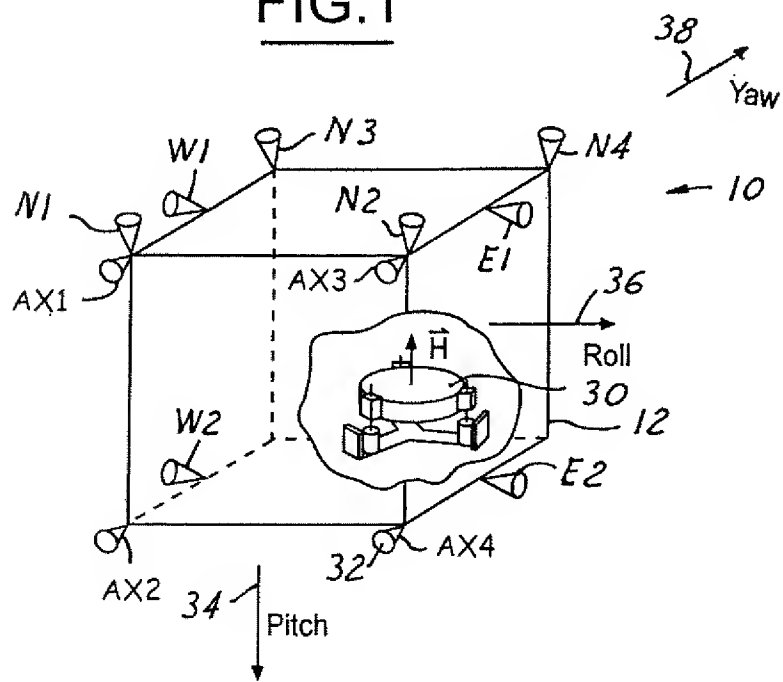


FIG. 2

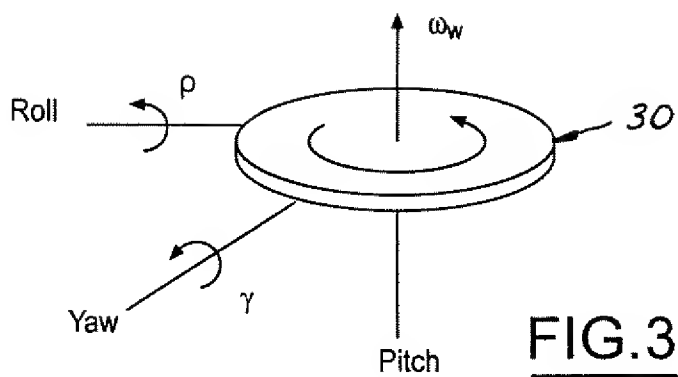


FIG.3

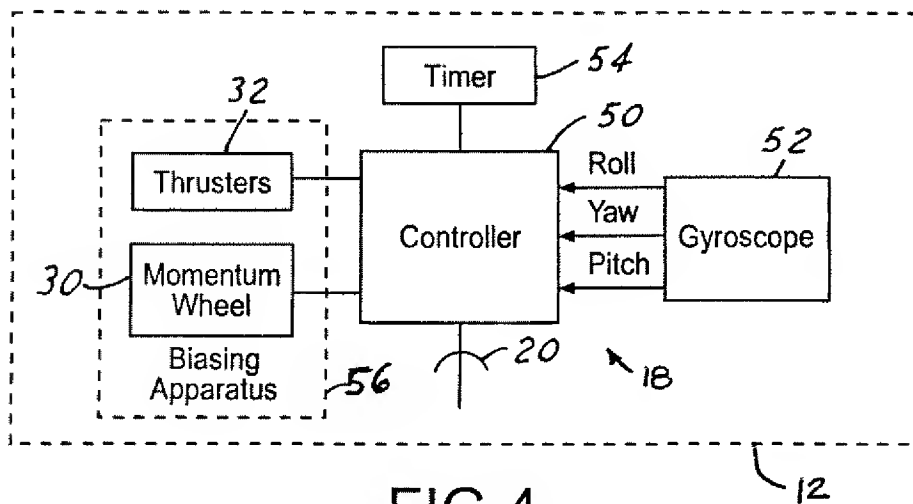


FIG.4

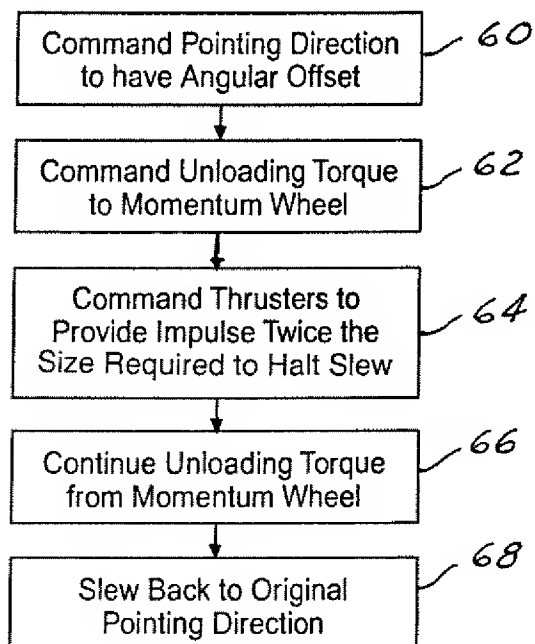
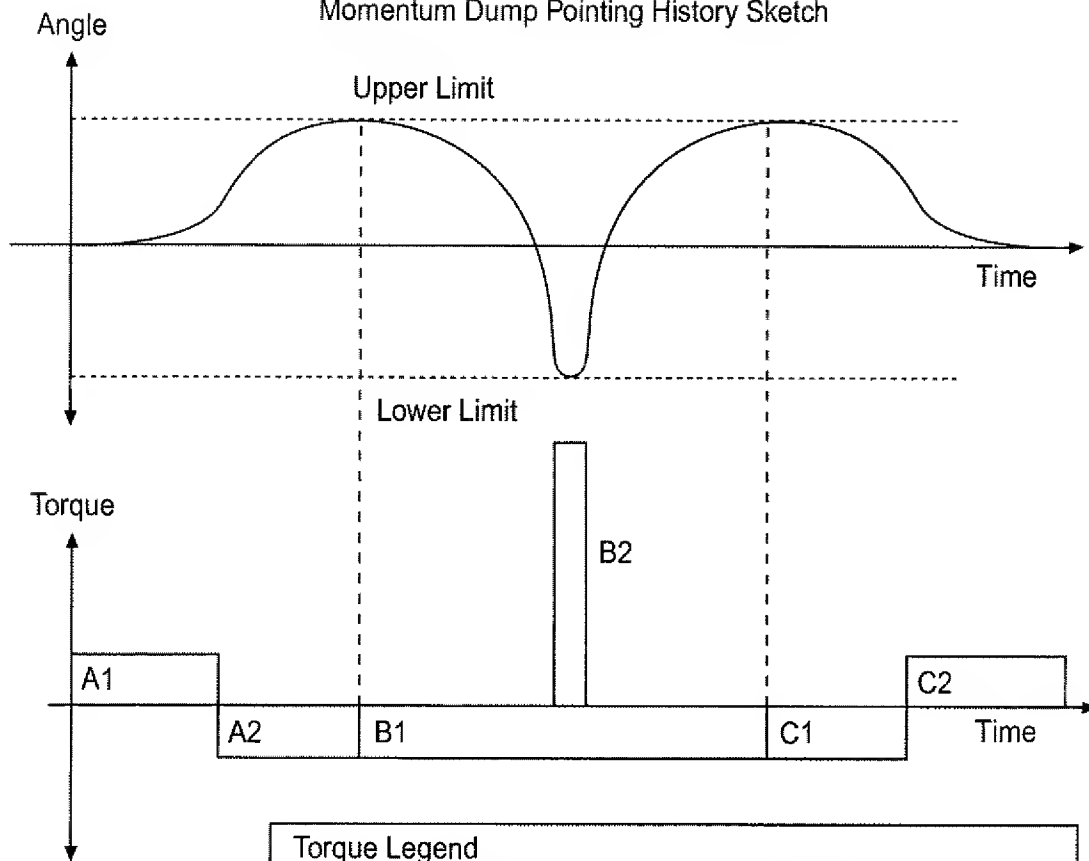


FIG.6

Momentum Dump Pointing History Sketch



Torque Legend

- A1,A2 - Wheel torque to set up for momentum dump
- B1 - Wheel torque to unload momentum/reaction wheel
- B2 - Thruster torque to unload momentum/reaction wheel
(total impulse of B1 and B2 are equal and opposite)
- C1,C2 - Wheel torque to clean up after momentum dump

FIG.5